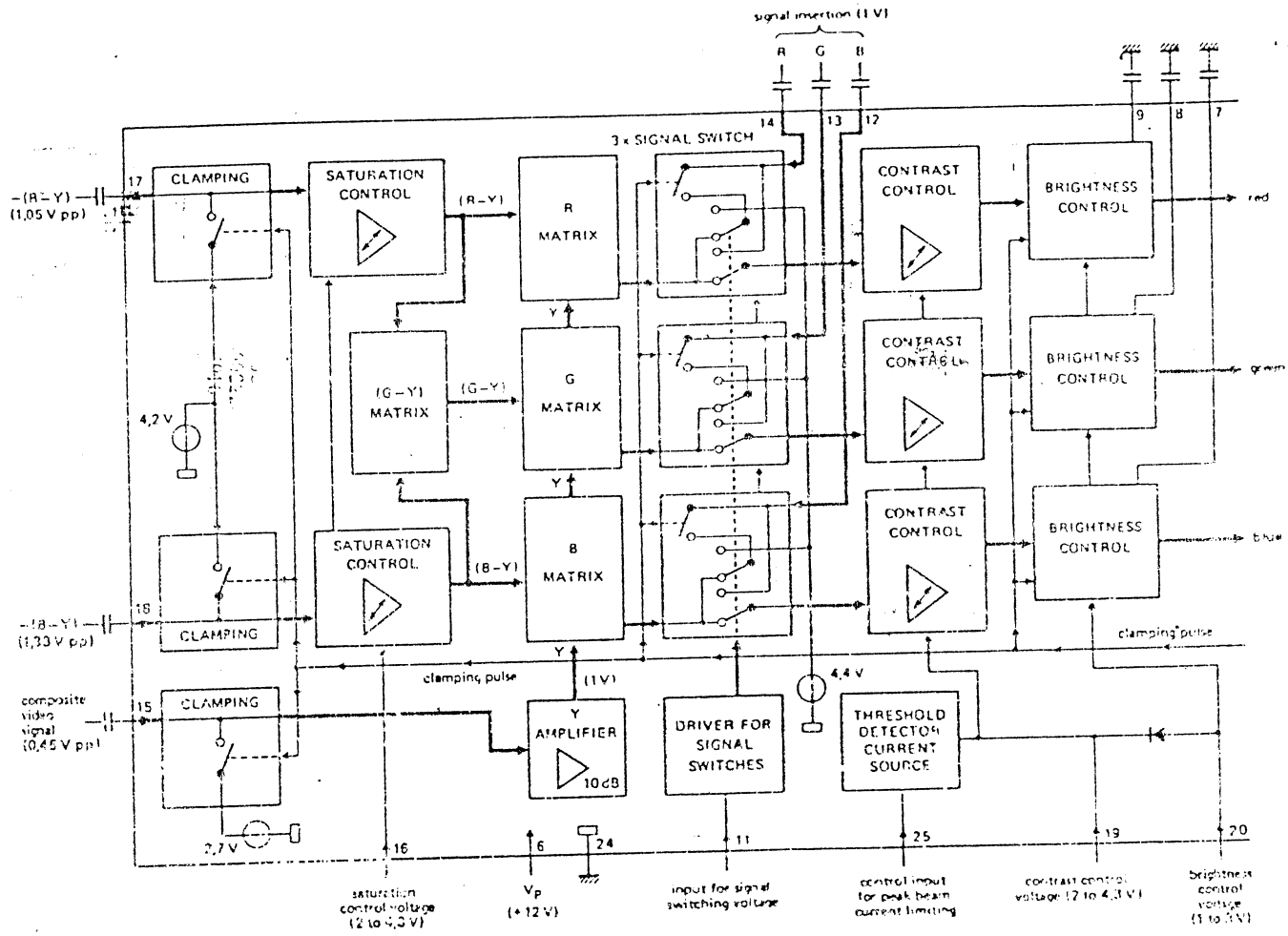
AXXION RC4121PS

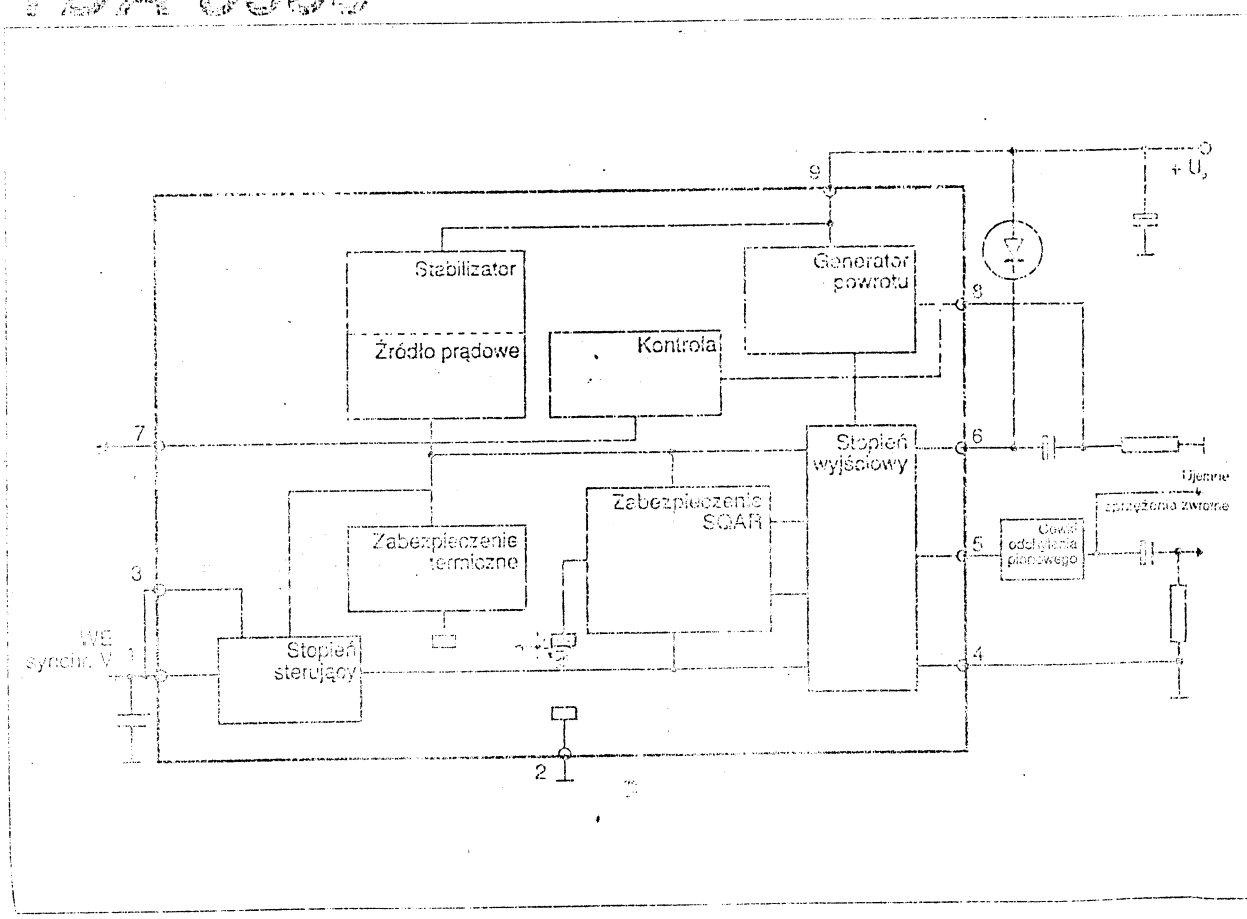
MODEL

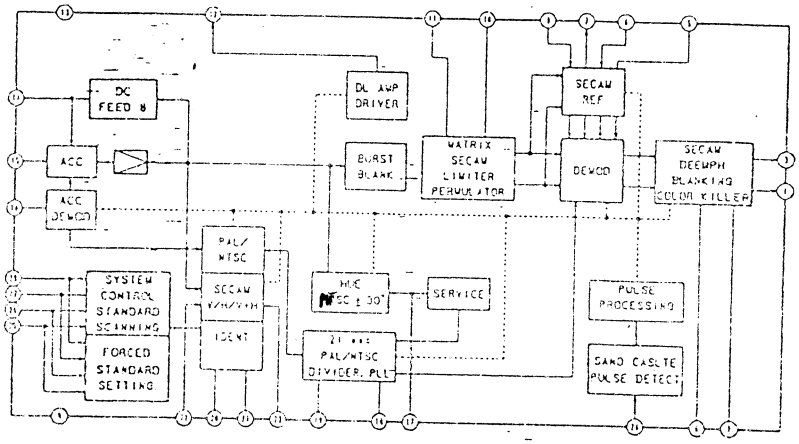
SERVICE MANUAL



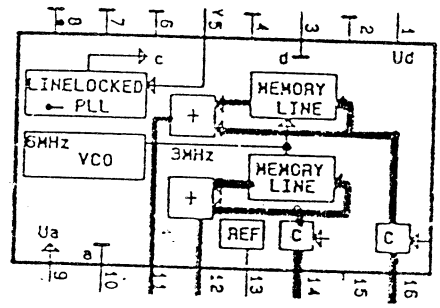
Schemat blokowy TDA3505

TDA 3653

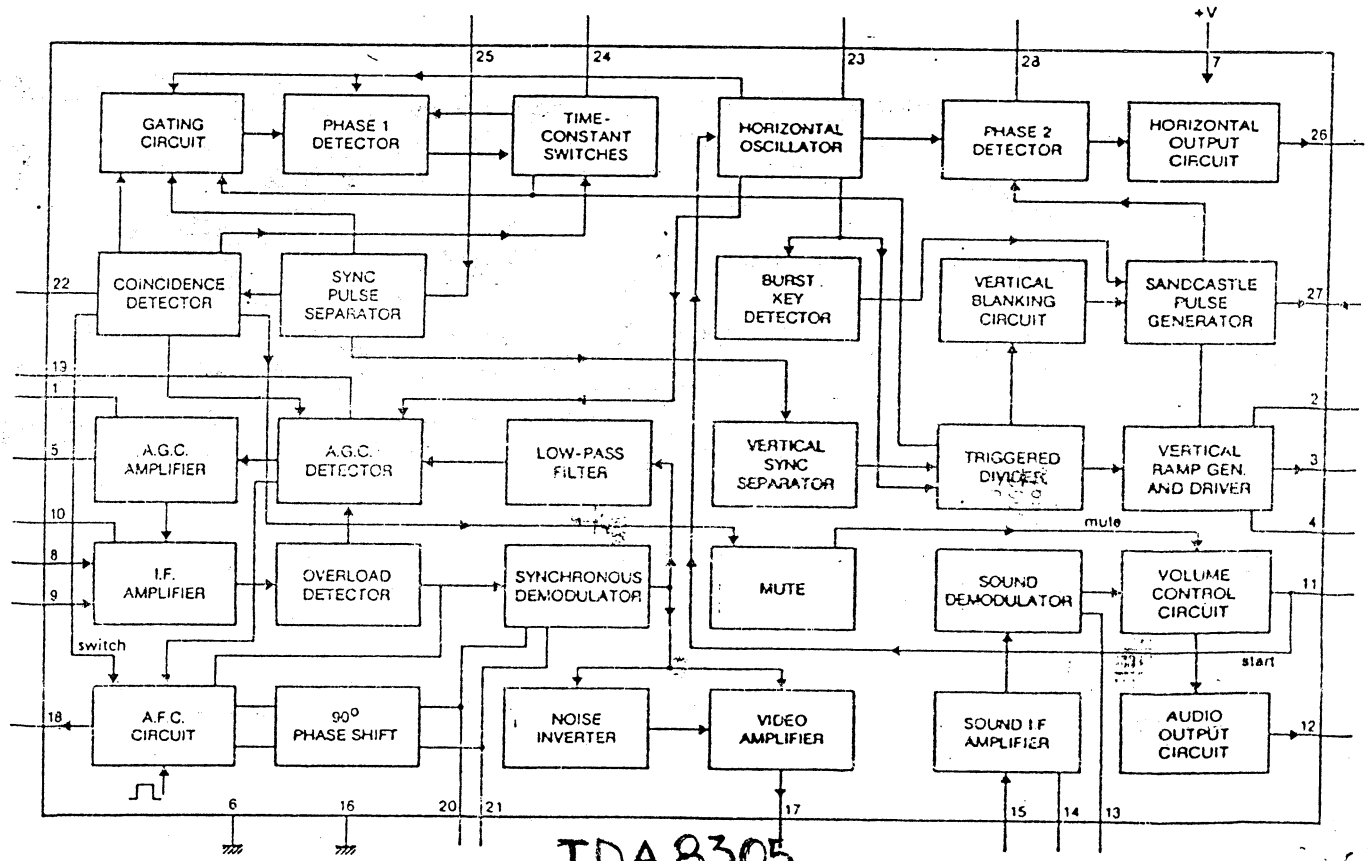




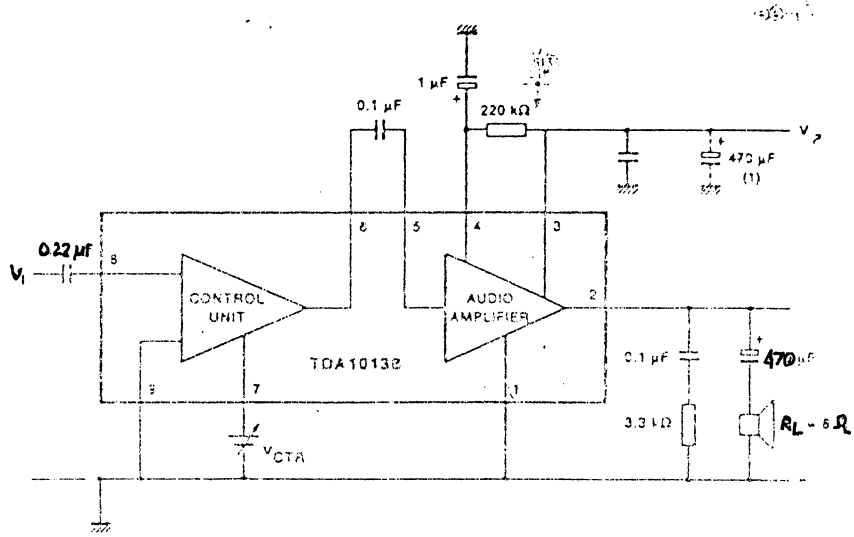
TDA 4650



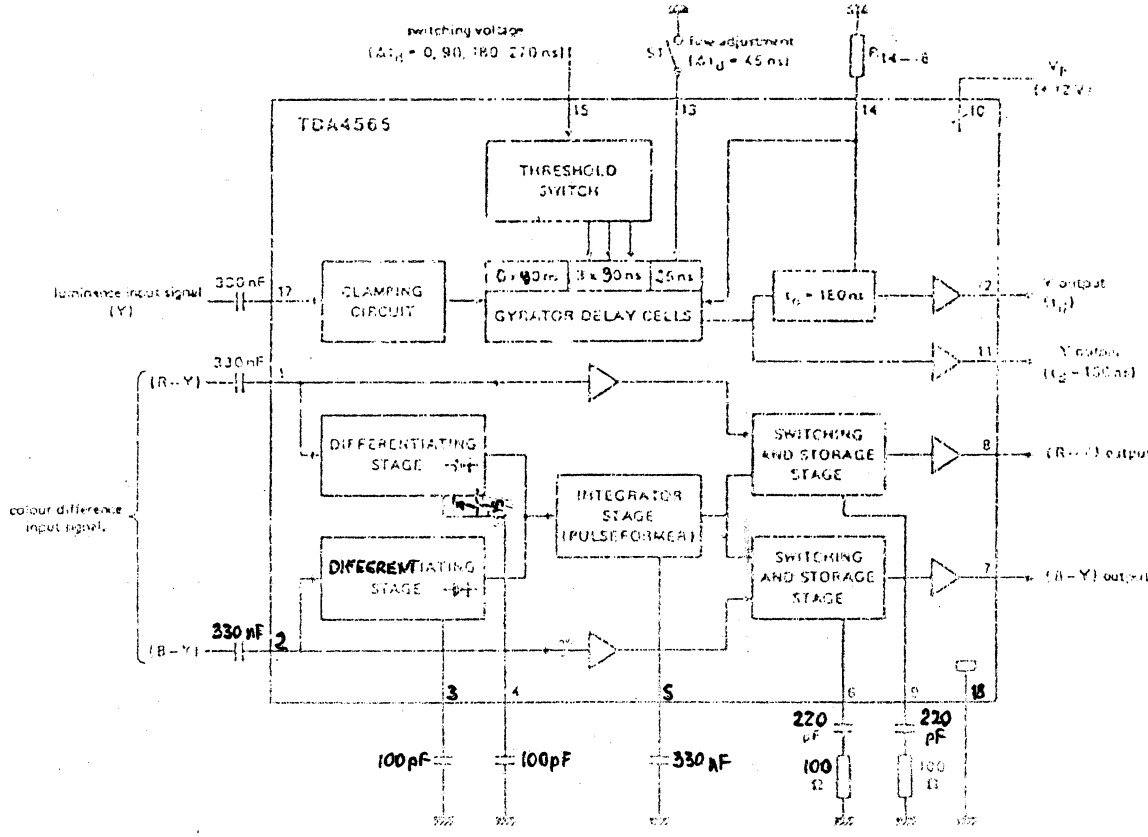
TDA 4660



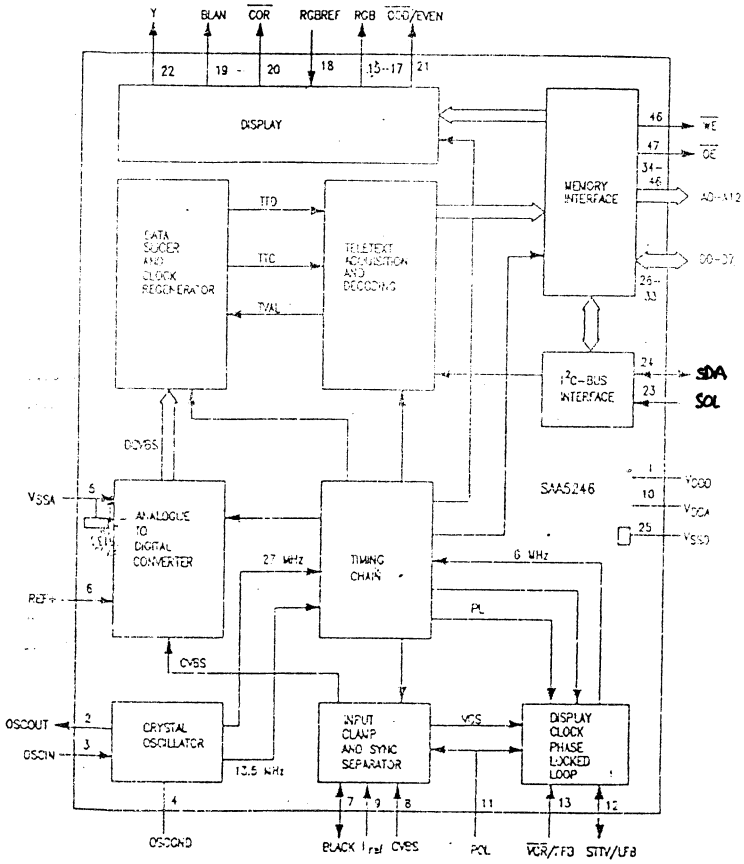
TDA 8305



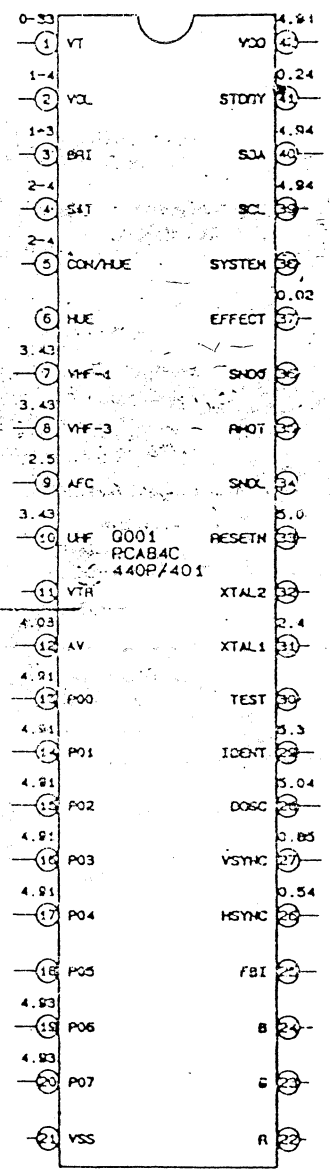
Schemat aplikacyjny TDA1013B

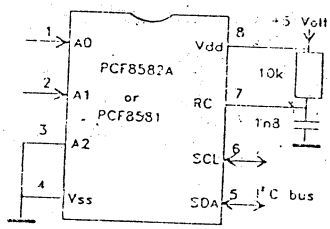


Schemat blokowy TDA4565

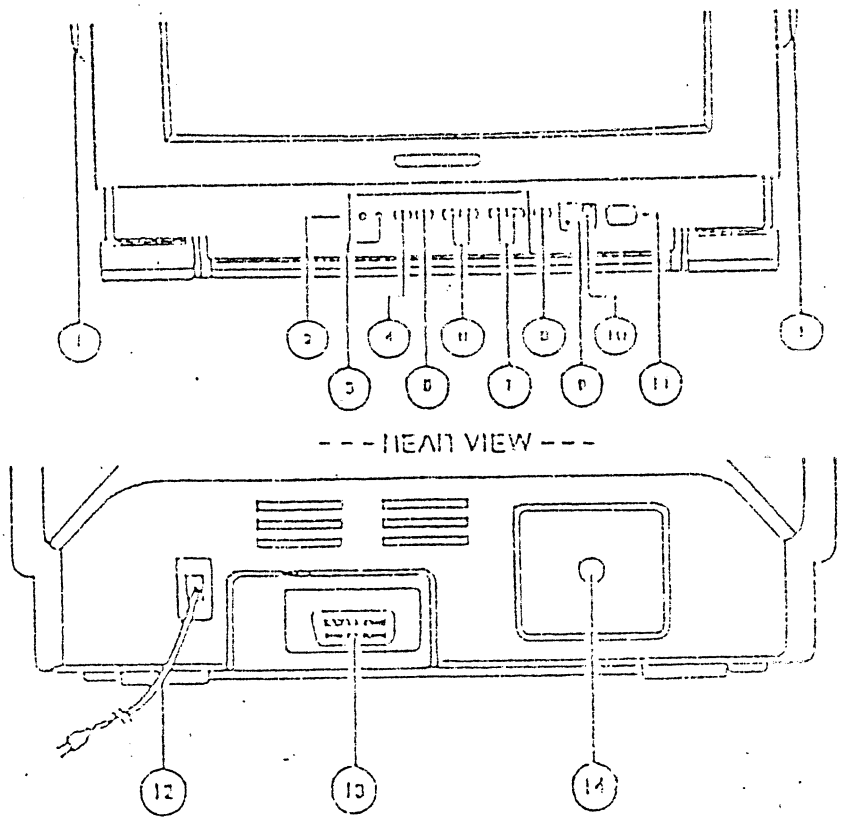

Y
BLAN
COR
RGBREF
RGB
CSD/EVEN
DISPLAY
MEMORY INTERFACE
DATA SLICER AND CLOCK REGENERATOR
TELETEXT ACQUISITION AND DECODING
TTD
TTC
TVAL
I²C-BUS INTERFACE
SDA
SCL
WE
OE
AD-A12
D0-D7
SAA5246
VSSA
VDDA
VSSD
ANALOGUE TO DIGITAL CONVERTER
TIMING CHAIN
27 MHz
6 MHz
PL
CVBS
REF+
REF-
OSCOUT
OSCIN
CRYSTAL OSCILLATOR
12.5 MHz
INPUT CLAMP AND SYNC SEPARATOR
VCS
DISPLAY CLOCK PHASE LOCKED LOOP
OSCGND
BLACK I ref
CVBS
PCL
VCR/FB
STTV/LFB

SAA 5246

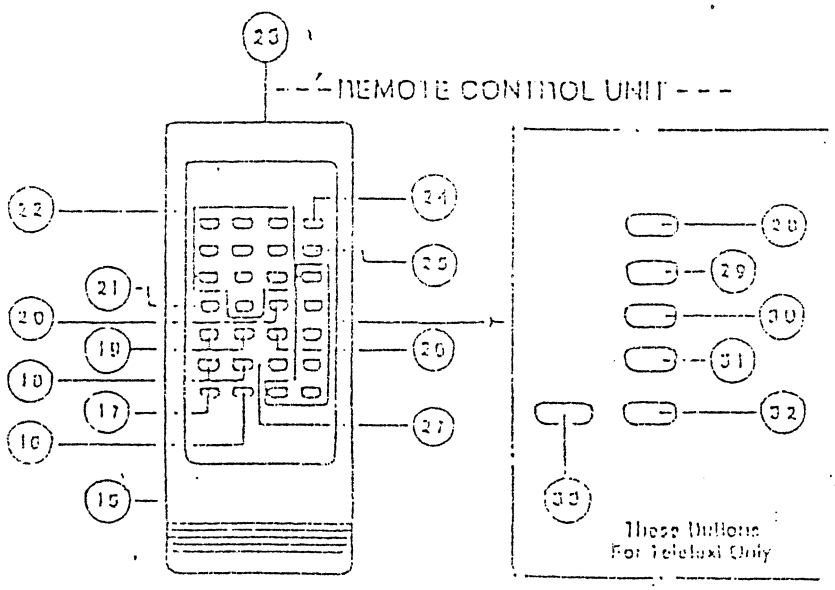

VT
VCL
BRI
SAT
CON/HUE
HUE
VHF-1
VHF-3
AFC
UHF
VTH
AV
P00
P01
P02
P03
P04
P05
P06
P07
VSS
VDD
STDTV
SDA
SCL
SYSTEM
EFFECT
SNDO
AMOT
SNDL
RESETN
XTAL2
XTAL1
TEST
IDENT
DOSC
VSYNC
HSYNC
FBI
B
G
R
Q001
PCA84C
440P/401


A0
A1
A2
Vss
PCF8582A
or
PCF8581
Vdd
RC
SCL
SDA
+5 Volt
10k
1n8
I²C bus

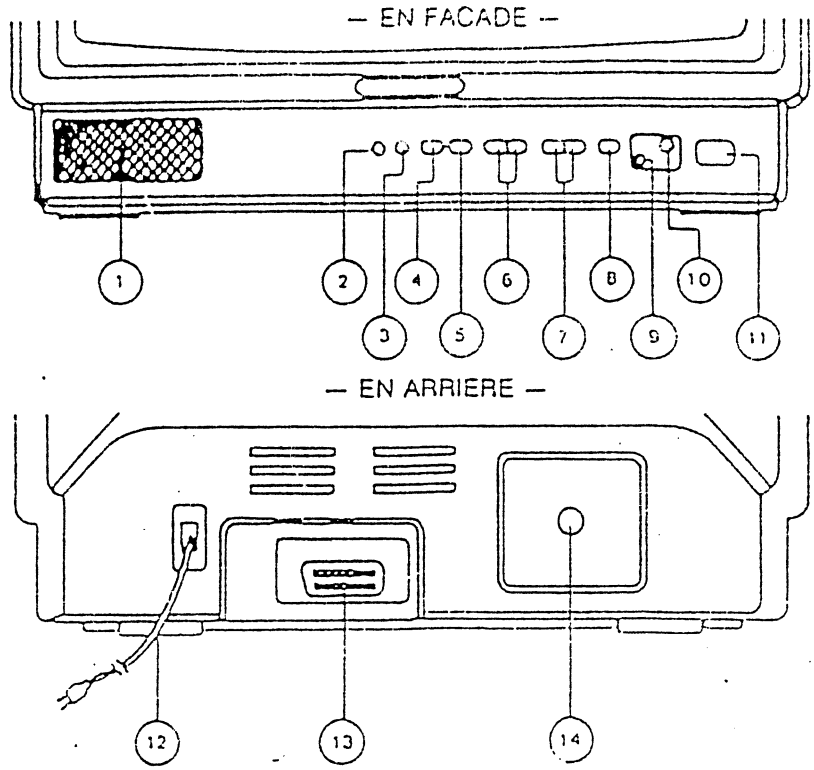
LOCATION OF CONTROLS



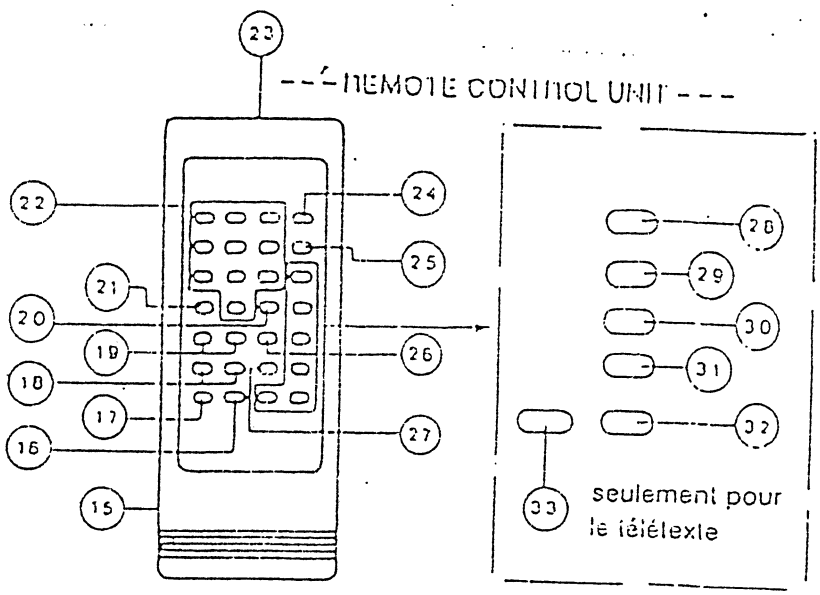
REMOTE CONTROL HAND UNIT



LOCATION OF CONTROLS



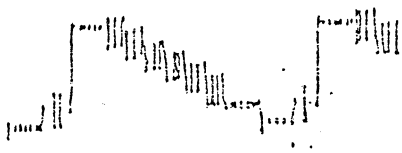
REMOTE CONTROL HAND UNIT



WAVEFORMS PATTERN TABLE

When the colour pattern signal input is 60dB 1KHz modulated signal, we have the following waveforms pattern.

1. TP203



2.4 p-p (64 μS)

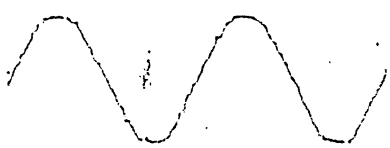
2. TP209

0.3V p-p (64 μS)

3. TP302

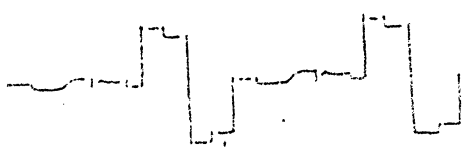
60mV p-p (64 μS)

4. TP301



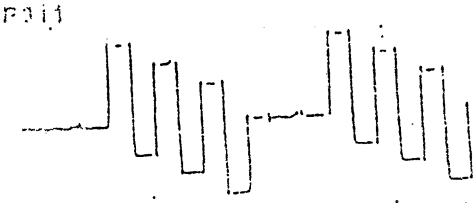
0.6V p-p (64 μS)

5. TP310



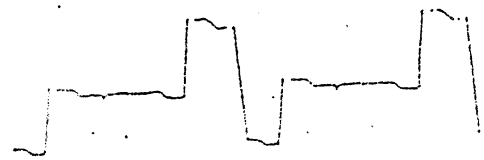
1V p-p (64 μS)

6. TP311



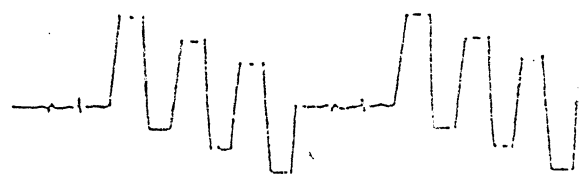
1V p-p (64 μS)

7. TP303



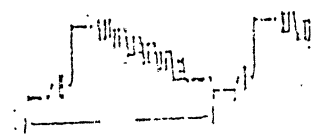
1V p-p (64 μS)

8. TP304



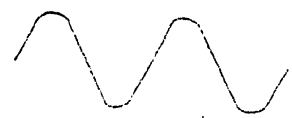
1.1V p-p (64 μS)

9. L205



0.3V p-p (64 μS)

10. R244

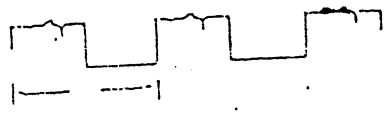


0.1V p-p (64 μS)

11. J62

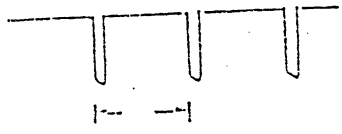
1V p-p (64 μS)

12. IR502



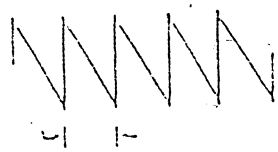
0.26V p-p (64 μS)

13. J145



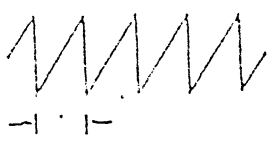
0.3V p-p (64 μS)

14. J146



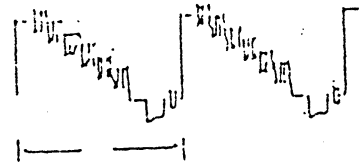
0.3V p-p (64 μS)

15. 212



0.2V p-p (64 μS)

16. J74



0.2V p-p (64 μS)

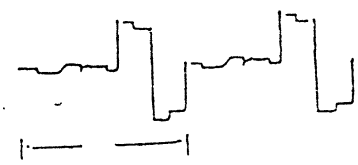
17. IR306

10 mV p-p (64 μS)

18. IR304

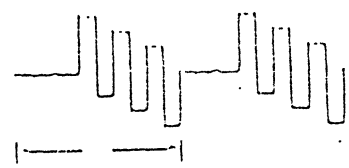
80 mV p-p (64 μS)

19. IC304 8 PIN



100 mV p-p (64 μS)

20. IC304 7 PIN



80 mV p-p (64 μS)

31. R507

12V p-p (64 μS)

34. D306

7V p-p (64 μS)

32. D401

2V p-p (64 μS)

35. D309

7V p-p (64 μS)

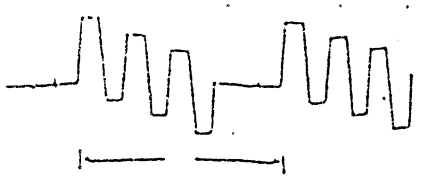
33. D307

7V p-p (64μS)

21. IC303 11 PIN

60 mV p-p (64μS)

22. IC303 12 PIN

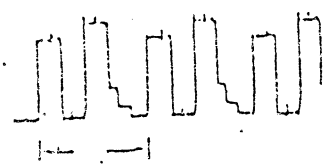


80 mV p-p (64 μS)

23. IC304 12 PIN

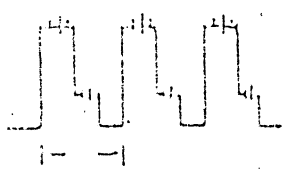
20 mV p-p (64 μS)

24. L303



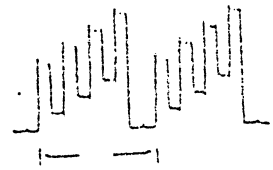
175 mV p-p (64 μS)

25. L302



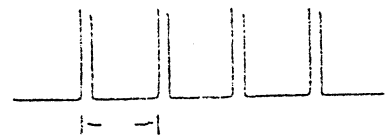
175 mV p-p (64 μS)

26. R301



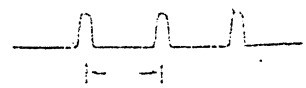
175 mV p-p (64 μS)

27. R172



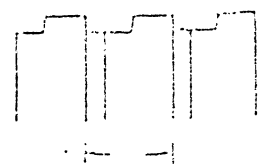
0.2V p-p (64 μS)

28. R175



20 mV p-p (64 US)

29. Q601

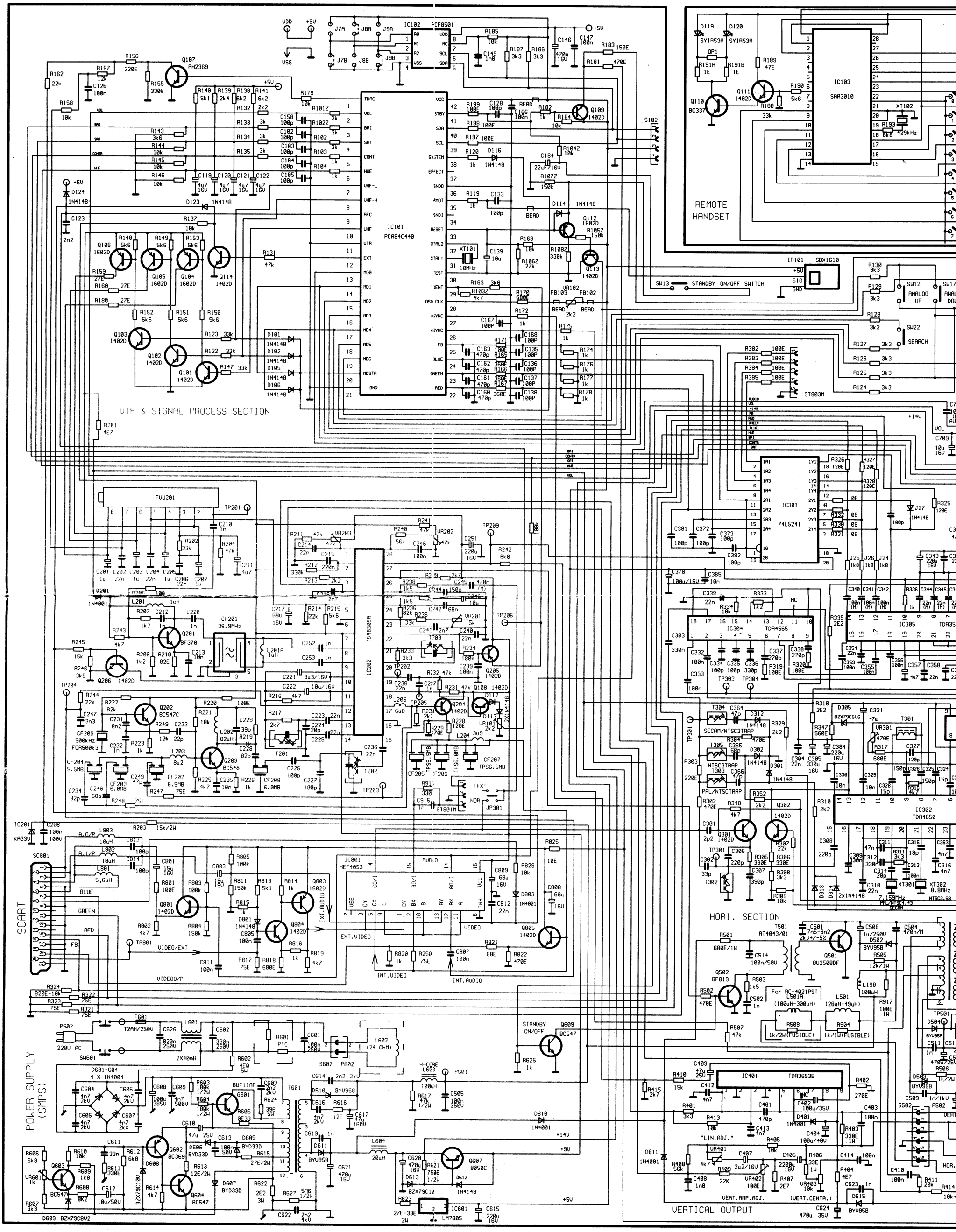


1.5V p-p (64 μS)

30. J170

0.1V p-p (64 μS)

1.OPT


IC101 PCA84C440
IC102 PCF8501
IC103 SAA3010
IC202 TDA8305A
IC301 74L5241
IC302 TDA4650
IC304 TDA4565
IC305 TDA3505
IC401 TDA3653B
IC601 LM7805
IC801 HEF4053
REMOTE HANDSET
IR101 SBX1610
SW13 STANDBY ON/OFF SWITCH
SW12 ANALOG UP
SW22 SEARCH
VIF & SIGNAL PROCESS SECTION
HORI. SECTION
VERTICAL OUTPUT
POWER SUPPLY (SMPS)
SCART
ST803M
TUU201
CF201 38.9MHz
CF209 500kHz FCAS00k3
SECAM/NTSC3TRAP
PAL/NTSC3TRAP
NTSC3TRAP
T501 AT4043/01
Q501 BU2508DF
L501 (28uH-49uH)
L602 (24 OHM)
VERT.AMP.ADJ.
(VERT.CENTR.)
"LIN.ADJ."
STANDBY ON/OFF
TEXT
NOR
JP301
+5V
+14V
+9V
VDD
VSS
VOL
BRI
SAT
CONT
HUE
VIDEO/EXT
VIDEO/P
EXT.VIDEO
EXT.AUDIO
INT.VIDEO
INT.AUDIO
VIDEO
AUD.O
TDRC
VHF-L
VHF-H
AFC
UHF
VTR
EXT
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MD1
MD2
MD3
MD4
MD5
MD6
MDSTR
FB
BLUE
GREEN
RED
SYSTEM
EFFECT
SNDO
AMOT
SNDI
RESET
XTAL2
XTAL1
TEST
IDENT
OSD CLK
VSYNC
HSYNC
GND
SDA
SCL
VCC
STBY
For RC-4021PST
1k/2W(FUSIBLE)
1k/1W(FUSIBLE)
220V AC
SW601
P502
P802
F601 T2AH/250V
TP201
TP202
TP203
TP204
TP205
TP206
TP209
TP301
TP303
TP304
TP801
TP802
TP901
TP902
TP903
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TP998
TP999
TP1000

REMOTE HANDSET

TELETEXT PROCESS SECTION

AUDIO DRIVE SECTION

COLOR DECODE SECTION

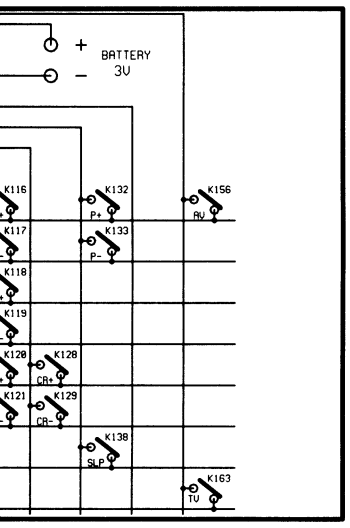
HORI. SECTION

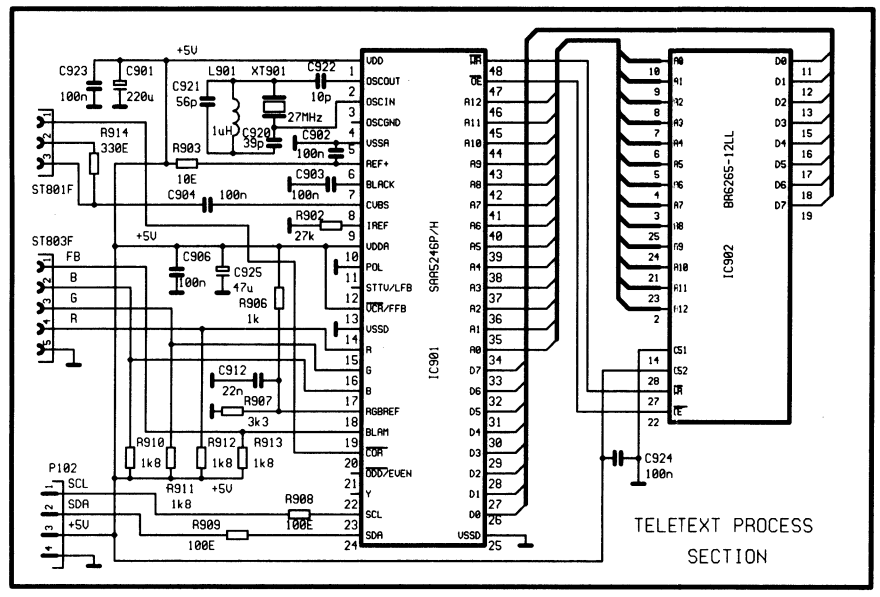
VERTICAL OUTPUT

AXXION

SCHEMAT IDEOWY OTV

RC4020, RC412



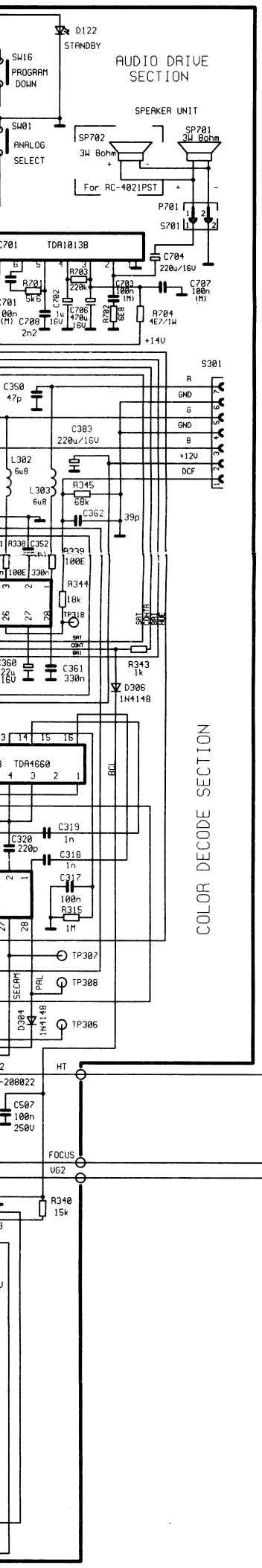


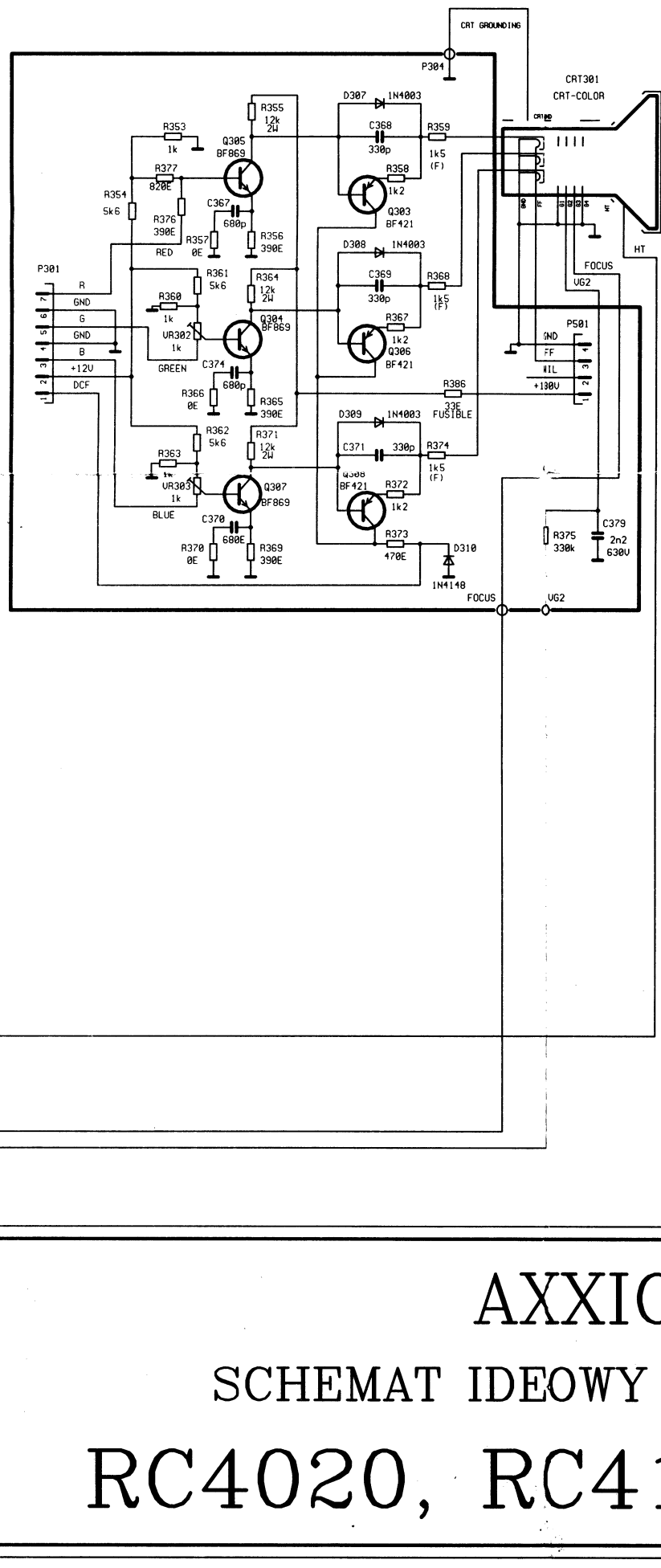
REMARK:

CONTROL RANGE TABLE

	MIN.	MAX.	CENTER
CONT.	2.8V	4.0V	
BRI.	0.9V	2.4V	
SAT	2.1V	3.3V	
HUE	1.5V	3.9V	2.8V

	A0	A1	A2
PCF8581	7b	8a	9b
PCF8582	7a	8b	9b





SCHEMATIC NOTES:

1. RESISTANCE IS SHOWN IN OHMS k=1.000 M=1.000.000
2. CAPACITANCE IS SHOWN IN u=uF n=nF p=pF
   T TANTALUM CAPACITOR
   M FILM CAPACITOR
3. —▭— STANDARD FILM RESISTOR (SFR25)
4. VOLTAGE READ WITH DIGITAL VOLTMETER FROM POINT INDICATED TO CHASSIS GROUND USING A NORMAL PICTURE
5. VOLTAGE READINGS SHOWN ARE NORMAL VALUES AND MAY VARY +/- 20% (EXCEPT H.V.)
6. SCHEMATIC SUBJECT TO CHANGE WITHOUT NOTICE

IC101

TUNING STEP DELAY	PIN16	PIN17
40 ms	OFF	ON
52 ms	OFF	OFF
61 ms	ON	OFF
83 ms	ON	ON

"OFF - OPTION DIODE ABSENT"
"ON - OPTION DIODE PRESENT"

AXXION

SCHEMAT IDEOWY OTVC 20", 21"

RC4020, RC4120, RC4021